Author Index of Volume 60

Abdou, M.S.A., 93
Abel, M.-L., 183
Abkowitz, M.A., 149
Akagi, K., 85
Akbulut, U., 27
Aldinger, R., 265
Ando, F., 45
Antoniadis, H., 149

Babaev, V.G., 57
Beggiato, G., 105
Bello, Jr., B., 1
Bergner, H., 97
Berlin, A., 179
Bernard, M.C., 115
Berzina, T.S., 111
Beyer, G., 169
Bidan, G., 5
Birckner, E., 23
Bloor, D., 195
Bogdanovskaya, V.A., 159
Bonnett, R., 195
Briddon, P.R., 227
Bulychev, B.M., 57

Cagnolati, R., 255
Campos, M., 1
Caple, G., 211
Caple, K., 211
Casalbore-Miceli, G., 105
Chakroune, S., 295
Chehimi, M.M., 183
Chen, S.-A., 51, 215
Chen, T.-A., 175
Chosrovian, H., 23

Dahm, D.U., 23
Daolio, S., 105
Delamar, M., 183
De Rossi, D., 111
Deslouis, C., 269
DesMarteau, D.D., 141
Dhawan, S.K., 63, 67
Dogan, S., 27

Efimov, O.N., 159
El Rhazi, M., 269
Epstein, A.J., 223

Fabre, J.M., 295
Fang, Y., 215
Faulhaber, J.C.R., 227
Fioretto, D., 255
Flippen, R.B., 223, 233
Fujimura, Y., 45
Fukuda, T., 259

Gajduk, O.A., 77
Gavrilov, A.B., 159
Geniès, E.M., 5
Geri, A., 105
Ghosh, S., 133
Giffard, M., 163
Golovaty, V.G., 81
Gorgues, A., 163
Grebner, D., 23
Guba, N.F., 73, 77

Hadziioannou, G., 239
Hanack, M., 199, 265
Hanly, N.M., 195
Heinen, I., 31
Herrema, J.K., 239
Herrmann, K.-H., 265
Hirsch, A., 265
Hoch, M., 295
Holdcroft, S., 93
Hörhold, H.H., 97
Horn, Ch., 31
Hsu, C.-H., 223, 233
Hugot-Le Goff, A., 115

Jacobsen, R.L., 137
Jenekhe, S.A., 149
Jubault, M., 163

Kaeriyama, K., 171
Kalpagam, V., 133
Kang, E.T., 13
Karyakin, A.A., 289
Karyakina, E.E., 289
Kasper, K., 265
Kato, K., 45
Keller, H.J., 31
Ko, D.Y.K., 227

Koketsu, J., 45
Krylov, V.A., 81
Kudaikulova, S.K., 293
Kudryavtsev, Yu.P., 57
Kurihara, T., 259
Kurys, Ja.I., 81

Li, C., 285
Li, S., 285
Li, X., 285
Liao, C.-S., 51

MacDiarmid, A.G., 233
Maichle-Mössmer, C., 199
Mangold, K.-M., 199
Manohar, S.K., 233
Moldenhauer, J., 31
Monkman, A.P., 195
Mozurkewich, G., 137
Mulè, M., 111
Musiani, M.M., 269

Naarmann, H., 23
Neoh, K.G., 13
Nishio, S., 39
Noël, P., 5
Noftle, R.E., 141

Ooba, N., 259
Osaheni, J.A., 149

Pagani, G., 179
Peacock, P.M., 223, 233
Pigois-Landureau, E., 183
Pokhodenko, V.D., 73, 77, 81
Pokhodnia, K.I., 31
Porter, T.L., 211

Rentsch, S., 23, 97
Ribo, J.M., 195
Rieke, R.D., 175
Röhrig, U., 199
Roncali, J., 163
Rovira, C., 145
Ruckenstein, E., 249
Ruggeri, G., 255

Sandberg, M., 171
Saoud, K., 295
Schiavon, G., 179
Schweitzer, D., 31
Serhani, D., 295
Shabelnikov, V.P., 81
Shakhnin, D.B., 77
Shirakawa, H., 85
Sirotinkin, S.P., 57
Socino, G., 255
Steckenbiegler, B., 169
Stolka, M., 149
Strakhova, A.K., 289
Stussi, E., 111
Suzer, S., 27

Tan, K.L., 13
Tanaka, K., 39, 279
Tanaka, S., 171
Tarasevitch, M.R., 159
Toppare, L., 27
Tribollet, B., 269
Trivedi, D.C., 63, 67
Troitsky, V.I., 111

Udod, I.A., 57

van Bolhuis, F., 239
Varfolomeyev, S.D., 289

Wabnitz, H., 97
Whangbo, M.-H., 145
Wildeman, J., 239

Yalcin, T., 27
Yamabe, T., 39, 279
Yamamoto, T., 259
Yamanaka, S., 39
Yang, S., 249
Yata, S., 39
Yatsimirsky, A.K., 289
Ye, F., 141
Yoshizawa, K., 279
Yue, J., 223

Zhubanov, B.A., 293
Zotti, G., 105, 179
Zueva, A.F., 159

Subject Index of Volume 60

3-Aminopyridine
electrochemical polymerization of 3-aminopyridine and some characteristics, 45
Aniline
influence of polymerization conditions on the properties of poly(2-methylaniline) and its copolymer with aniline, 63
Anisotropy
vibronic structures and anisotropy observed in linear and nonlinear optical spectra of vacuum-deposited polythiophene thin films, 259
Arenemethylidenes
electrochemical oligomerization of arenemethylidenes. Attempts to synthesize low bandgap systems, 199
Aromatic heterocycles
copolymers on the basis of *para*-azophenylene and aromatic heterocycles, 293
Azophenylene
copolymers on the basis of *para*-azophenylene and aromatic heterocycles, 293

BEDO-TTF
synthesis and characterization of new π-donors based on the BEDO-TTF molecule, 295
BEDT-TTF
conducting Langmuir–Blodgett films of hexadecyl-BEDT-TTF charge-transfer salts with inorganic compounds, 111
on the nature of the metal–insulator transition in β-(BEDT-TTF)$_4$Pt(CN)$_4$, 145
ab initio determination of electron–molecular vibration constants (em-v) in bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) and tetrathiafulvalene (TTF), 227
BEDT-TTF radical salts
FT-IR absorption spectroscopy of BEDT-TTF radical salts: charge transfer and donor–anion interaction, 31
Bioelectrochemical activity
the electrochemical polymerization of Methylene Blue and bioelectrochemical activity of the resulting film, 289
Biosensor
new enzyme biosensor for determination of glucose, 159
Bridged macrocyclic metal complexes
STM investigations on bridged macrocyclic metal complexes, 265
Bromine
the two-stage reversible reaction of bromine with poly(dithienylvinylene), 179

Cadmium telluride
cadmium telluride/doped poly(*N*-epoxypropylcarbazole) structure of a solid-state photovoltaic cell, 73
Carboxylic acid
polycondensation of 1,3,5-triaminobenzene, *para*-phenylenediamine and alkyl derivatives with 2,5-dioxo-1,4-cyclohexanedicarboxylic acid. New organic polymers and an approach to 3D polyaniline, 5
Carbyne intercalation compounds
an interaction of amorphous carbyne with sodium: the formation of carbyne intercalation compounds, 57
Charge transport
charge transport in neutral poly(3-hexylthiophene), 51
Conductivity
improved conductivity of polyaniline by counter-ion-induced processability, 169
polyalkylthiophenes with the smallest bandgap and the highest intrinsic conductivity, 175
Copolymers
copolymers on the basis of *para*-azophenylene and aromatic heterocycles, 293
Crown ethers
effect of crown ethers on synthesis of polyaniline and its electrochemical behaviour in organic solvents, 81
Crystal structures
synthesis and crystal structures of two dialkyl-substituted sexithiophenes, 239

Deposition
oxidation of π-conjugated polymers with gold trichloride: enhanced stability of the electronically conducting state and electroless deposition of Au^0, 93
Dispersive properties
characterization of conducting polymers by inverse gas chromatography
Part II. Effect of dopant on the dispersive and specific properties of polypyrrole, 183
Doping
co-existence of external protonation and self-doping in polyaniline, 13
cadmium telluride/doped poly(*N*-epoxypropylcarbazole) structure of a solid-state photovoltaic cell, 73
preparation and properties of conducting polypyrrole doped with fluorinated imides, 141
characterization of conducting polymers by inverse gas chromatography
Part II. Effect of dopant on the dispersive and specific properties of polypyrrole, 183
polyaniline Schottky barrier: effect of doping on rectification and photovoltaic characteristics, 215

Elastic characterization
elastic characterization of poly(3-n.decylpyrrole) thin films by Brillouin light scattering, 255
Electrical conductivity
dependence of electrical conductivity on film thickness in polyacetylene — effects of mechanically forced parallel and in-plane alignments of fibrils, 85
Electrical properties
synthesis, characterization and electrical properties of soluble conjugated poly-Schiff bases, 285
Electrochemical a.c. impedance measurement
electrochemical a.c. impedance measurement of the electrode fabricated by polyacenic semiconductive material, 39
Electrochemical behaviour
effect of crown ethers on synthesis of polyaniline and its electrochemical behaviour in organic solvents, 81

Electrochemical oligomerization
electrochemical oligomerization of arenemethylidenes. Attempts to synthesize low bandgap systems, 199
Electrochemical polymerization
electrochemical polymerization of 3-aminopyridine and some characteristics, 45
the electrochemical polymerization of Methylene Blue and bioelectrochemical activity of the resulting film, 289
Electrodes
effect of pH on the mediated oxidation of $[Fe(CN)_6]^{4-}$ at polyaniline film electrodes. An impedance study, 269
Electron–molecular vibration constants
ab initio determination of electron–molecular vibration constants (em-v) in bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) and tetrathiafulvalene (TTF), 227
Enzyme
new enzyme biosensor for determination of glucose, 159
External protonation
co-existence of external protonation and self-doping in polyaniline, 13

Ferromagnet
design of one-dimensional ferromagnet based on polyacetylene chain, 279
Film
dependence of electrical conductivity on film thickness in polyacetylene – effects of mechanically forced parallel and in-plane alignments of fibrils, 85
effect of pH on the mediated oxidation of $[Fe(CN)_6]^{4-}$ at polyaniline film electrodes. An impedance study, 269
the electrochemical polymerization of Methylene Blue and bioelectrochemical activity of the resulting film, 289
Films
conducting Langmuir–Blodgett films of hexadecyl-BEDT-TTF charge-transfer salts with inorganic compounds, 111
protonation and oxidation processes in polyaniline thin films studied by optical multichannel analysis and *in situ* Raman spectroscopy, 115
surface structure of free-standing polyaniline thin films, 211
elastic characterization of poly(3-n.decylpyrrole) thin films by Brillouin light scattering, 255
vibronic structures and anisotropy observed in linear and nonlinear optical spectra of vacuum-deposited polythiophene thin films, 259
Fluorescence
time-resolved fluorescence studies on thiophene oligomers in solution, 23
Fluorinated imides
preparation and properties of conducting polypyrrole doped with fluorinated imides, 141
Fractal properties
small-angle X-ray-scattering investigation of poly(*p*-phenylene) with fractal properties, 1

Gas sensor
conducting polymers of aniline
II. A composite as a gas sensor, 27
Gel permeation chromatography
the molecular weight of polyaniline by light scattering and gel permeation chromatography, 233
Glucose
new enzyme biosensor for determination of glucose, 159
Gold
oxidation of π-conjugated polymers with gold trichloride: enhanced stability of the electronically conducting state and electroless deposition of Au^0, 93

Impedance
effect of pH on the mediated oxidation of $[Fe(CN)_6]^{4-}$ at polyaniline film electrodes. An impedance study, 269
Inverse gas chromatography
characterization of conducting polymers by inverse gas chromatography
Part II. Effect of dopant on the dispersive and specific properties of polypyrrole, 183

Ladder polymer
generation and drift of photocarriers in a conjugated ladder polymer, 149
Light scattering
the molecular weight of sulfonic acid ring-substituted polyaniline by laser light scattering, 223
the molecular weight of polyaniline by light scattering and gel permeation chromatography, 233
elastic characterization of poly(3-n.decylpyrrole) thin films by Brillouin light scattering, 255

Mechanical properties
preparation and mechanical properties of electrically conductive polypyrrole–poly(ethylene-*co*-vinyl acetate) composites, 249
Metal–insulator transition
on the nature of the metal–insulator transition in β-$(BEDT\text{-}TTF)_4Pt(CN)_4$, 145
3-Methyl-4-phenylthiophene
synthesis and properties of a new conducting polymer based on 3-methyl-4-phenylthiophene, 77
Methylene Blue
the electrochemical polymerization of Methylene Blue and bioelectrochemical activity of the resulting film, 289
Molecular weight
the molecular weight of sulfonic acid ring-substituted polyaniline by laser light scattering, 223
the molecular weight of polyaniline by light scattering and gel permeation chromatography, 233

Oligomerization
electrochemical oligomerization of arenemethylidenes. Attempts to synthesize low bandgap systems, 199
Oligothiophene
redox properties of a soluble oligothiophene–tetrathiafulvalene hybrid system, 163
Oxidation
oxidation of π-conjugated polymers with gold trichloride: enhanced stability of the electronically conducting state and electroless deposition of Au^0, 93
Oxidation processes
protonation and oxidation processes in polyaniline thin films studied by optical multichannel analysis and *in situ* Raman spectroscopy, 115

Peierls transition
analysis of Young's modulus anomaly at the Peierls transition in TaS_3, 137
p-Phenylenediamine
polycondensation of 1,3,5-triaminobenzene, *para*-phenylenediamine and alkyl derivatives with 2,5-dioxo-1,4-cyclohexanedicarboxylic acid. New organic polymers and an approach to 3D polyaniline, 5

Photocarriers
generation and drift of photocarriers in a conjugated ladder polymer, 149
Photoconduction
picosecond studies of ultrafast processes in photoconducting phenylated poly(phenylene vinylenes), 97
Photooxidation
effects of a silane-containing moiety on the photooxidation of poly(3-nonylthiophene-2,5-diyl), 171
Photovoltaic cell
cadmium telluride/doped poly(*N*-epoxypropylcarbazole) structure of a solid-state photovoltaic cell, 73
Platinum
on the nature of the metal–insulator transition in β-(BEDT-TTF)$_4$Pt(CN)$_4$, 145
Poly(2-methylaniline)
influence of polymerization conditions on the properties of poly(2-methylaniline) and its copolymer with aniline, 63
Poly(3-hexylthiophene)
charge transport in neutral poly(3-hexylthiophene), 51
Poly(3-n.decylpyrrole)
elastic characterization of poly(3-n.decylpyrrole) thin films by Brillouin light scattering, 255
Poly(3-nonylthiophene-2,5-diyl)
effects of a silane-containing moiety on the photooxidation of poly(3-nonylthiophene-2,5-diyl), 171
Polyacenic semiconductive material
electrochemical a.c. impedance measurement of the electrode fabricated by polyacenic semiconductive material, 39
Polyacetylene
dependence of electrical conductivity on film thickness in polyacetylene – effects of mechanically forced parallel and in-plane alignments of fibrils, 85
design of one-dimensional ferromagnet based on polyacetylene chain, 279
Polyalkylthiophenes
polyalkylthiophenes with the smallest bandgap and the highest intrinsic conductivity, 175
Polyaniline
polycondensation of 1,3,5-triaminobenzene, *para*-phenylenediamine and alkyl derivatives with 2,5-dioxo-1,4-cyclohexanedicarboxylic acid. New organic polymers and an approach to 3D polyaniline, 5
co-existence of external protonation and self-doping in polyaniline, 13
conducting polymers of aniline
II. A composite as a gas sensor, 27
effect of crown ethers on synthesis of polyaniline and its electrochemical behaviour in organic solvents, 81
protonation and oxidation processes in polyaniline thin films studied by optical multichannel analysis and *in situ* Raman spectroscopy, 115
swellability properties of polyelectrolyte complexes of polyaniline, 133
improved conductivity of polyaniline by counter-ion-induced processability, 169
surface structure of free-standing polyaniline thin films, 211
polyaniline Schottky barrier: effect of doping on rectification and photovoltaic characteristics, 215
the molecular weight of sulfonic acid ring-substituted polyaniline by laser light scattering, 223
the molecular weight of polyaniline by light scattering and gel permeation chromatography, 233
effect of pH on the mediated oxidation of $[Fe(CN)_6]^{4-}$ at polyaniline film electrodes. An impedance study, 269
Polycondensation
polycondensation of 1,3,5-triaminobenzene, *para*-phenylenediamine and alkyl derivatives with 2,5-dioxo-1,4-cyclohexanedicarboxylic acid. New organic polymers and an approach to 3D polyaniline, 5
Poly(dithienylvinylene)
the two-stage reversible reaction of bromine with poly(dithienylvinylene), 179
Polyelectrolyte complexes
swellability properties of polyelectrolyte complexes of polyaniline, 133
Poly(ethylene-*co*-vinyl acetate)
preparation and mechanical properties of electrically conductive polypyrrole–poly(ethylene-*co*-vinyl acetate) composites, 249
Polymerization
influence of polymerization conditions on the properties of poly(2-methylaniline) and its copolymer with aniline, 63
influence of the reaction medium on the polymerization mechanism of thionaphtheneindole, 105
Poly(*N*-epoxypropylcarbazole)
cadmium telluride/doped poly(*N*-epoxypropylcarbazole) structure of a solid-state photovoltaic cell, 73
Poly(*N*-methylisoindole)
poly(*N*-methylisoindole), a colour neutral conducting organic polymer, 195
Poly(*o*-phenetidine)
poly(*o*-phenetidine) – a soluble conducting polymer: synthesis, characterization and its uses, 67
Poly(phenylene vinylenes)
picosecond studies of ultrafast processes in photoconducting phenylated poly(phenylene vinylenes), 97
Poly(*p*-phenylene)
small-angle X-ray-scattering investigation of poly(*p*-phenylene) with fractal properties, 1
Polypyrrole
preparation and properties of conducting polypyrrole doped with fluorinated imides, 141
characterization of conducting polymers by inverse gas chromatography
Part II. Effect of dopant on the dispersive and specific properties of polypyrrole, 183
preparation and mechanical properties of electrically conductive polypyrrole–poly(ethylene-*co*-vinyl acetate) composites, 249
Polythiophene
vibronic structures and anisotropy observed in linear and nonlinear optical spectra of vacuum-deposited polythiophene thin films, 259
Processability
improved conductivity of polyaniline by counter-ion-induced processability, 169
Protonation
protonation and oxidation processes in polyaniline thin films studied by optical multichannel analysis and *in situ* Raman spectroscopy, 115

Redox properties
redox properties of a soluble oligothiophene–tetrathiafulvalene hybrid system, 163

SAXS investigation
small-angle X-ray-scattering investigation of poly(*p*-phenylene) with fractal properties, 1

Schiff bases
synthesis, characterization and electrical properties of soluble conjugated poly-Schiff bases, 285
Schottky barrier
polyaniline Schottky barrier: effect of doping on rectification and photovoltaic characteristics, 215
Sexithiophenes
synthesis and crystal structures of two dialkyl-substituted sexithiophenes, 239
Silane
effects of a silane-containing moiety on the photooxidation of poly(3-nonylthiophene-2,5-diyl), 171
Sodium
an interaction of amorphous carbyne with sodium: the formation of carbyne intercalation compounds, 57
Spectra
vibronic structures and anisotropy observed in linear and nonlinear optical spectra of vacuum-deposited polythiophene thin films, 259
Spectroscopy
FT-IR absorption spectroscopy of BEDT-TTF radical salts: charge transfer and donor–anion interaction, 31
protonation and oxidation processes in polyaniline thin films studied by optical multichannel analysis and *in situ* Raman spectroscopy, 115
STM investigations
STM investigations on bridged macrocyclic metal complexes, 265
Surface structure
surface structure of free-standing polyaniline thin films, 211
Swellability properties
swellability properties of polyelectrolyte complexes of polyaniline, 133
Synthesis
poly(*o*-phenetidine) – a soluble conducting polymer: synthesis, characterization and its uses, 67
synthesis and properties of a new conducting polymer based on 3-methyl-4-phenylthiophene, 77
effect of crown ethers on synthesis of polyaniline and its electrochemical behaviour in organic solvents, 81
synthesis and crystal structures of two dialkyl-substituted sexithiophenes, 239
synthesis, characterization and electrical properties of soluble conjugated poly-Schiff bases, 285
synthesis and characterization of new π-donors based on the BEDO-TTF molecule, 295

Tantalum
analysis of Young's modulus anomaly at the Peierls transition in TaS_3, 137
Tetrathiafulvalene
redox properties of a soluble oligothiophene–tetrathiafulvalene hybrid system, 163
ab initio determination of electron–molecular vibration constants (em-v) in bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) and tetrathiafulvalene (TTF), 227
Thionaphtheneindole
influence of the reaction medium on the polymerization mechanism of thionaphtheneindole, 105
Thiophene oligomers
time-resolved fluorescence studies on thiophene oligomers in solution, 23
Time-resolved fluorescence studies
time-resolved fluorescence studies on thiophene oligomers in solution, 23
1,3,5-Triaminobenzene
polycondensation of 1,3,5-triaminobenzene, *para*-phenylenediamine and alkyl derivatives with 2,5-dioxo-1,4-cyclohexanedicarboxylic acid. New organic polymers and an approach to 3D polyaniline, 5

Ultrafast processes
picosecond studies of ultrafast processes in photoconducting phenylated poly(phenylene vinylenes), 97

Vibronic structures
vibronic structures and anisotropy observed in linear and nonlinear optical spectra of vacuum-deposited polythiophene thin films, 259

Young's modulus
analysis of Young's modulus anomaly at the Peierls transition in TaS_3, 137